1646

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/589,288A

DATE: 05/13/2002 P.5
TIME: 14:58:15

Input Set : A:\09589288 CRF SEQ LIST Mar 2002 Cust No 22195.txt
Output Set: N:\CRF3\05132002\I589288A.raw

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   3 <110> APPLICANT: Yu et al.
   5 <120> TITLE OF INVENTION: Methods of Treatment Using Antibodies to Neutrokine-alpha
   7 <130> FILE REFERENCE: PF343P3C5
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/589,288A
C--> 9 <141> CURRENT FILING DATE: 2000-06-08
   9 <150> PRIOR APPLICATION NUMBER: 09/589,288
  10 <151> PRIOR FILING DATE: 2000-06-08
  12 <150> PRIOR APPLICATION NUMBER: 09/507,968
  13 <151> PRIOR FILING DATE: 2000-02-22
  15 <150> PRIOR APPLICATION NUMBER: 60/122,388
  16 <151> PRIOR FILING DATE: 1999-03-02
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  25 <151> PRIOR FILING DATE: 1999-04-02
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  28 <151> PRIOR FILING DATE: 1999-04-16
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  31 <151> PRIOR FILING DATE: 1999-04-23
  33 <150> PRIOR APPLICATION NUMBER: 60/131,278
  34 <151> PRIOR FILING DATE: 1999-04-27
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  58 <151> PRIOR FILING DATE: 1999-12-23
  60 <150> PRIOR APPLICATION NUMBER: 60/176,015
  61 <151> PRIOR FILING DATE: 2000-01-14
  63 <150> PRIOR APPLICATION NUMBER: 09/255,794
  64 <151> PRIOR FILING DATE: 1999-02-23
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TECH CENTER 1600/2900

RAW SEQUENCE LISTING   DATE: 05/13/2002
PATENT APPLICATION: US/09/589,288A   TIME: 14:58:15

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Output Set: N:\CRF3\05132002\I589288A.raw

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73 <151> PRIOR FILING DATE: 1996-10-25
75 <160> NUMBER OF SEQ ID NOS: 42
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94 ccaaccttca aagttcaagt agtgat atg gat gac tcc aca gaa agg gag cag     173
95                                 Met Asp Asp Ser Thr Glu Arg Glu Gln
96                                  1               5
98 tca cgc ctt act tct tgc ctt aag aaa aga gaa gaa atg aaa ctg aag     221
99 Ser Arg Leu Thr Ser Cys Leu Lys Lys Arg Glu Glu Met Lys Leu Lys
100 10                  15                  20                  25
102 gag tgt gtt tcc atc ctc cca cgg aag gaa agc ccc tct gtc cga tcc     269
103 Glu Cys Val Ser Ile Leu Pro Arg Lys Glu Ser Pro Ser Val Arg Ser
104                     30                  35                  40
106 tcc aaa gac gga aag ctg ctg gct gca acc ttg ctg ctg gca ctg ctg     317
107 Ser Lys Asp Gly Lys Leu Leu Ala Ala Thr Leu Leu Leu Ala Leu Leu
108                     45                  50                  55
110 tct tgc tgc ctc acg gtg gtg tct ttc tac cag gtg gcc gcc ctg caa     365
111 Ser Cys Cys Leu Thr Val Val Ser Phe Tyr Gln Val Ala Ala Leu Gln
112             60                  65                  70
114 ggg gac ctg gcc agc ctc cgg gca gag ctg cag ggc cac cac gcg gag     413
115 Gly Asp Leu Ala Ser Leu Arg Ala Glu Leu Gln Gly His His Ala Glu
116         75                  80                  85
118 aag ctg cca gca gga gca gga gcc ccc aag gcc ggc ctg gag gaa gct     461
119 Lys Leu Pro Ala Gly Ala Gly Ala Pro Lys Ala Gly Leu Glu Glu Ala
120 90                  95                  100                 105
122 cca gct gtc acc gcg gga ctg aaa atc ttt gaa cca cca gct cca gga     509
123 Pro Ala Val Thr Ala Gly Leu Lys Ile Phe Glu Pro Pro Ala Pro Gly
124                     110                 115                 120
126 gaa ggc aac tcc agt cag aac agc aga aat aag cgt gcc gtt cag ggt     557
127 Glu Gly Asn Ser Ser Gln Asn Ser Arg Asn Lys Arg Ala Val Gln Gly
128                 125                 130                 135
130 cca gaa gaa aca gtc act caa gac tgc ttg caa ctg att gca gac agt     605
131 Pro Glu Glu Thr Val Thr Gln Asp Cys Leu Gln Leu Ile Ala Asp Ser
132             140                 145                 150
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RAW SEQUENCE LISTING   DATE: 05/13/2002
PATENT APPLICATION: US/09/589,288A   TIME: 14:58:15

Input Set : A:\09589288 CRF SEQ LIST Mar 2002 Cust No 22195.txt
Output Set: N:\CRF3\05132002\I589288A.raw

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134 gaa aca cca act ata caa aaa gga tct tac aca ttt gtt cca tgg ctt       653
135 Glu Thr Pro Thr Ile Gln Lys Gly Ser Tyr Thr Phe Val Pro Trp Leu
136       155                 160                 165
138 ctc agc ttt aaa agg gga agt gcc cta gaa gaa aaa gag aat aaa ata       701
139 Leu Ser Phe Lys Arg Gly Ser Ala Leu Glu Glu Lys Glu Asn Lys Ile
140 170                 175                 180                 185
142 ttg gtc aaa gaa act ggt tac ttt ttt ata tat ggt cag gtt tta tat       749
143 Leu Val Lys Glu Thr Gly Tyr Phe Phe Ile Tyr Gly Gln Val Leu Tyr
144                 190                 195                 200
146 act gat aag acc tac gcc atg gga cat cta att cag agg aag aag gtc       797
147 Thr Asp Lys Thr Tyr Ala Met Gly His Leu Ile Gln Arg Lys Lys Val
148                 205                 210                 215
150 cat gtc ttt ggg gat gaa ttg agt ctg gtg act ttg ttt cga tgt att       845
151 His Val Phe Gly Asp Glu Leu Ser Leu Val Thr Leu Phe Arg Cys Ile
152           220                 225                 230
154 caa aat atg cct gaa aca cta ccc aat aat tcc tgc tat tca gct ggc       893
155 Gln Asn Met Pro Glu Thr Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly
156       235                 240                 245
158 att gca aaa ctg gaa gaa gga gat gaa ctc caa ctt gca ata cca aga       941
159 Ile Ala Lys Leu Glu Glu Gly Asp Glu Leu Gln Leu Ala Ile Pro Arg
160 250                 255                 260                 265
162 gaa aat gca caa ata tca ctg gat gga gat gtc aca ttt ttt ggt gca       989
163 Glu Asn Ala Gln Ile Ser Leu Asp Gly Asp Val Thr Phe Phe Gly Ala
164                 270                 275                 280
166 ttg aaa ctg ctg tgacctactt acaccatgtc tgtagctatt ttcctccctt        1041
167 Leu Lys Leu Leu
168                 285
170 tctctgtacc tctaagaaga aagaatctaa ctgaaaatac caaaaaaaaa aaaaaaaaa    1100
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174 <211> LENGTH: 285
175 <212> TYPE: PRT
176 <213> ORGANISM: human
178 <400> SEQUENCE: 2
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183 Lys Lys Arg Glu Glu Met Lys Leu Lys Glu Cys Val Ser Ile Leu Pro
184           20                  25                  30
186 Arg Lys Glu Ser Pro Ser Val Arg Ser Ser Lys Asp Gly Lys Leu Leu
187           35                  40                  45
189 Ala Ala Thr Leu Leu Leu Ala Leu Leu Ser Cys Cys Leu Thr Val Val
190       50                  55                  60
192 Ser Phe Tyr Gln Val Ala Ala Leu Gln Gly Asp Leu Ala Ser Leu Arg
193 65                  70                  75                  80
195 Ala Glu Leu Gln Gly His His Ala Glu Lys Leu Pro Ala Gly Ala Gly
196                 85                  90                  95
198 Ala Pro Lys Ala Gly Leu Glu Glu Ala Pro Ala Val Thr Ala Gly Leu
199           100                 105                 110
201 Lys Ile Phe Glu Pro Pro Ala Pro Gly Glu Gly Asn Ser Ser Gln Asn
202           115                 120                 125
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RAW SEQUENCE LISTING   DATE: 05/13/2002
PATENT APPLICATION: US/09/589,288A   TIME: 14:58:15

Input Set : A:\09589288 CRF SEQ LIST Mar 2002 Cust No 22195.txt
Output Set: N:\CRF3\05132002\I589288A.raw

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205     130             135         140
207 Asp Cys Leu Gln Leu Ile Ala Asp Ser Glu Thr Pro Thr Ile Gln Lys
208 145             150             155             160
210 Gly Ser Tyr Thr Phe Val Pro Trp Leu Leu Ser Phe Lys Arg Gly Ser
211             165             170             175
213 Ala Leu Glu Glu Lys Glu Asn Lys Ile Leu Val Lys Glu Thr Gly Tyr
214             180             185             190
216 Phe Phe Ile Tyr Gly Gln Val Leu Tyr Thr Asp Lys Thr Tyr Ala Met
217         195             200             205
219 Gly His Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu Leu
220     210             215             220
222 Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr Leu
223 225             230             235             240
225 Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu Gly
226             245             250             255
228 Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser Leu
229             260             265             270
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235 <211> LENGTH: 233
236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 3
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243 Leu Pro Lys Lys Thr Gly Gly Pro Gln Gly Ser Arg Arg Cys Leu Phe
244             20              25              30
246 Leu Ser Leu Phe Ser Phe Leu Ile Val Ala Gly Ala Thr Thr Leu Phe
247         35              40              45
249 Cys Leu Leu His Phe Gly Val Ile Gly Pro Gln Arg Glu Glu Phe Pro
250     50              55              60
252 Arg Asp Leu Ser Leu Ile Ser Pro Leu Ala Gln Ala Val Arg Ser Ser
253 65              70              75              80
255 Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val Val Ala Asn Pro
256             85              90              95
258 Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg Ala Asn Ala Leu
259             100             105             110
261 Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu Val Val Pro Ser
262     115             120             125
264 Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe Lys Gly Gln Gly
265     130             135             140
267 Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile Ser Arg Ile Ala
268 145             150             155             160
270 Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala Ile Lys Ser Pro
271             165             170             175
273 Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys Pro Trp Tyr Glu
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PATENT APPLICATION: US/09/589,288A   TIME: 14:58:15

Input Set : A:\09589288 CRF SEQ LIST Mar 2002 Cust No 22195.txt
Output Set: N:\CRF3\05132002\I589288A.raw

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276 Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys Gly Asp Arg Leu
277         195                 200                 205
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283 225                 230
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288 <212> TYPE: PRT
289 <213> ORGANISM: Homo sapiens
291 <400> SEQUENCE: 4
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295 Leu His Leu Leu Leu Leu Gly Leu Leu Leu Val Leu Leu Pro Gly Ala
296             20                 25                 30
298 Gln Gly Leu Pro Gly Val Gly Leu Thr Pro Ser Ala Ala Gln Thr Ala
299             35                 40                 45
301 Arg Gln His Pro Lys Met His Leu Ala His Ser Thr Leu Lys Pro Ala
302         50                 55                 60
304 Ala His Leu Ile Gly Asp Pro Ser Lys Gln Asn Ser Leu Leu Trp Arg
305 65                 70                 75                 80
307 Ala Asn Thr Asp Arg Ala Phe Leu Gln Asp Gly Phe Ser Leu Ser Asn
308                 85                 90                 95
310 Asn Ser Leu Leu Val Pro Thr Ser Gly Ile Tyr Phe Val Tyr Ser Gln
311             100                 105                 110
313 Val Val Phe Ser Gly Lys Ala Tyr Ser Pro Lys Ala Thr Ser Ser Pro
314             115                 120                 125
316 Leu Tyr Leu Ala His Glu Val Gln Leu Phe Ser Ser Gln Tyr Pro Phe
317         130                 135                 140
319 His Val Pro Leu Leu Ser Ser Gln Lys Met Val Tyr Pro Gly Leu Gln
320 145                 150                 155                 160
322 Glu Pro Trp Leu His Ser Met Tyr His Gly Ala Ala Phe Gln Leu Thr
323                 165                 170                 175
325 Gln Gly Asp Gln Leu Ser Thr His Thr Asp Gly Ile Pro His Leu Val
326             180                 185                 190
328 Leu Ser Pro Ser Thr Val Phe Phe Gly Ala Phe Ala Leu
329         195                 200                 205
332 <210> SEQ ID NO: 5
333 <211> LENGTH: 244
334 <212> TYPE: PRT
335 <213> ORGANISM: Homo sapiens
337 <400> SEQUENCE: 5
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342             20                 25                 30
344 Leu Leu Ala Val Pro Ile Thr Val Leu Ala Val Leu Ala Leu Val Pro
345         35                 40                 45
347 Gln Asp Gln Gly Gly Leu Val Thr Glu Thr Ala Asp Pro Gly Ala Gln
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VERIFICATION SUMMARY　　　　　　DATE: 05/13/2002
PATENT APPLICATION:　US/09/589,288A　　TIME: 14:58:16

Input Set : **A:\09589288 CRF SEQ LIST Mar 2002 Cust No 22195.txt**
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L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
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L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
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